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Attorney Docket No.: M-11317 US

**DECLARATION FOR PATENT APPLICATION  
AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

**STRUCTURES FOR IMPROVING HEAT DISSIPATION IN STACKED SEMICONDUCTOR  
PACKAGES**

which (check) ☒ is attached hereto.  
☐ and is amended by the Preliminary Amendment attached hereto.  
☐ was filed on as Application Serial No.  
☐ and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby appoint the following practitioners to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Customer Number 24251



Please address all correspondence and telephone calls to:

James E. Parsons  
**SKJERVEN MORRILL MacPHERSON LLP**  
25 Metro Drive, Suite 700  
San Jose, California 95110

Telephone: 408-453-9200  
Facsimile: 408-453-7979

I declare that all statements made herein of my own knowledge are true, all statements made herein on information and belief are believed to be true, and all statements made herein are made with the knowledge that whoever, in any matter within the jurisdiction of the Patent and Trademark Office, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall be subject to the penalties including fine or imprisonment or both as set forth under 18 U.S.C. 1001, and that violations of this paragraph may jeopardize the validity of the application or

Attorney Docket No. M-11317 US

this document, or the validity or enforceability of any patent, trademark registration, or certificate resulting therefrom.

Full name of first joint inventor: Paul Robert Hoffman  
Inventor's Signature: Paul Robert Hoffman Date: 12/6/01  
Residence: Chandler, Arizona  
Post Office Address: 1961 West Hemlock Way  
Chandler, Arizona 85248-4151  
Citizenship: United States

Full name of second joint inventor: David Albert Zoba  
Inventor's Signature: David Albert Zoba Date: 12/5/01  
Residence: Chandler, Arizona  
Post Office Address: 774 W. Goldfinch Way  
Chandler, Arizona 85248-3254  
Citizenship: United States



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FEBRUARY 11, 2002

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UNITED STATES PATENT AND TRADEMARK OFFICE  
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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/07/2001

REEL/FRAME: 012380/0068  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
HOFFMAN, PAUL ROBERT

DOC DATE: 12/06/2001

ASSIGNOR:  
ZOBA, DAVID ALBERT

DOC DATE: 12/05/2001

ASSIGNEE:  
AMKOR TECHNOLOGY, INC.  
1900 SOUTH PRICE ROAD  
CHANDLER, ARIZONA 85248-1604

SERIAL NUMBER: 10013396  
PATENT NUMBER:

FILING DATE: 12/07/2001  
ISSUE DATE:

LAZENA MARTIN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

ATTORNEY: JEP M-11317 us  
Assignment #10013396  
ACTION: \_\_\_\_\_ DUE: \_\_\_\_\_  
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ACTION: \_\_\_\_\_ DUE: \_\_\_\_\_  
DOCKETED BY: MJ DATE: 4-1-02  
FORM LETTER: YES/NO

12-03-2001

ATTORNEY DOCKET NO: M-11317 US

U.S. DEPARTMENT OF COMMERCE

COVER SHEET  
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PATENT AND TRADEMARK OFFICE



101924089

TO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

## 1. Name of conveying party(ies):

(a) Paul Robert Hoffman

(b) David Albert Zoba

Additional name(s) of conveying party(ies) attached?

☐ Yes☒ No

## 2. Name and address of receiving party(ies):

Name: AMKOR TECHNOLOGY, INC.

Street Address: 1900 South Price Road

City: Chandler

Arizona

85248-1604

Country: United States

## 3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Additional name(s) &amp; address(es) attached?

☐ Yes☒ No

Execution Date: (a) December 6, 2001; (b) December 5, 2001

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: (a) December 6, 2001;

(b) December 5, 2001

## A. Patent Application No.(s) -

10013396

## B. Patent No.(s)

Title: STRUCTURES FOR IMPROVING HEAT DISSIPATION IN  
STACKED SEMICONDUCTOR PACKAGES

Additional numbers attached?



Yes



No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James E. Parsons

Internal Address: SKJERVEN MORRILL MacPHERSON LLP

Street Address: 25 METRO DRIVE, SUITE 700

City: SAN JOSE

State: CA

Zip: 95110

## 6. Total number of applications and patents involved: One

## 7. Total fee (37 CFR 3.41): \$40.00

☒ Authorized to be charged to Deposit Account 19-2386☒ Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

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## 8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James E. Parsons

34,691

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: Three

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, we

Paul Robert Hoffman of Chandler, Arizona  
David Albert Zoba of Chandler, Arizona

hereby sell, assign and transfer to **AMKOR TECHNOLOGY, INC.**, a Delaware corporation, having a place of business at **1900 South Price Road, Chandler, AZ 85248-1604**, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

**STRUCTURES FOR IMPROVING HEAT DISSIPATION IN STACKED SEMICONDUCTOR PACKAGES**

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 6th day of December, 2001.

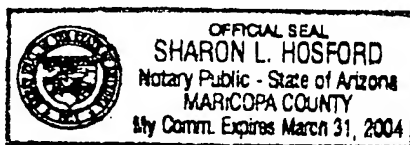
Paul Robert Hoffman

Paul Robert Hoffman

State of Arizona )  
 ) ss.  
 County of Maricopa

On 12/6/01 before me, Sharon L. Hosford  
 personally appeared Paul Hoffman personally  
 known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



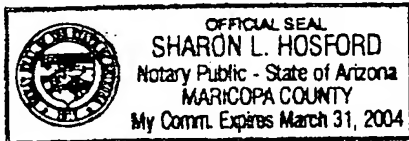
Sharon L. Hosford  
 SIGNATURE OF NOTARY

Executed this 5 day of December, 2001.

David Albert Zoba  
David Albert Zoba

State of Arizona )  
County of Maricopa ) ss.

On 12/5/01 before me, Sharon L. Hosford  
personally appeared David Zoba personally  
known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose  
name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they  
executed the same in his/her/their authorized capacity(ies), and that by his/her/their  
signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s)  
acted, executed the instrument.



WITNESS my hand and official seal.

Sharon L. Hosford  
SIGNATURE OF NOTARY